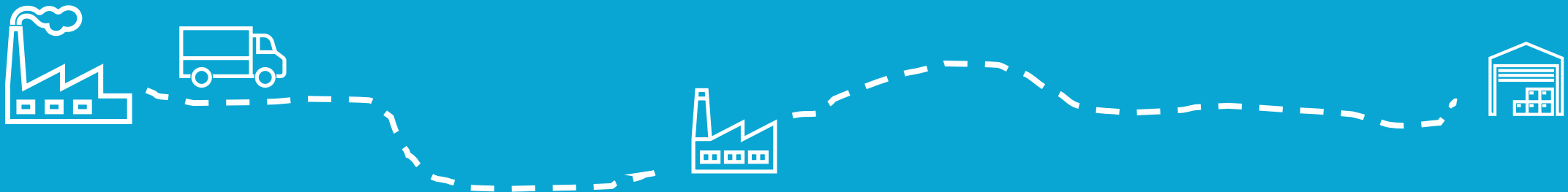




# ePLR

## Managing previous product load restrictions in Loady

This short overview is provided by Loady GmbH in January 2024. Please, get in touch with us for further information at [info@loady.com](mailto:info@loady.com).



# Previous **load restrictions** and **proper cleaning** ensure **high product quality** and **safe transport** and **(un)loading** for liquid/bulk goods



Important to all manufacturing industries, especially in the fields of **chemistry, food, pharma,** and **consumer goods** to:

- ✓ Prevent product contamination
- ✓ Prevent uncontrolled chemical reactions
- ✓ Preserve operational properties of the product
- ✓ Ensure compliance with regulatory requirements
- ✓ Ensure safe loading, transport and unloading
- ✓ Avoid equipment damages
- ✓ Deliver products of high quality

# Missing standards and the lack of a common structure in the management of preload restrictions hinder automation, cause efforts and problems

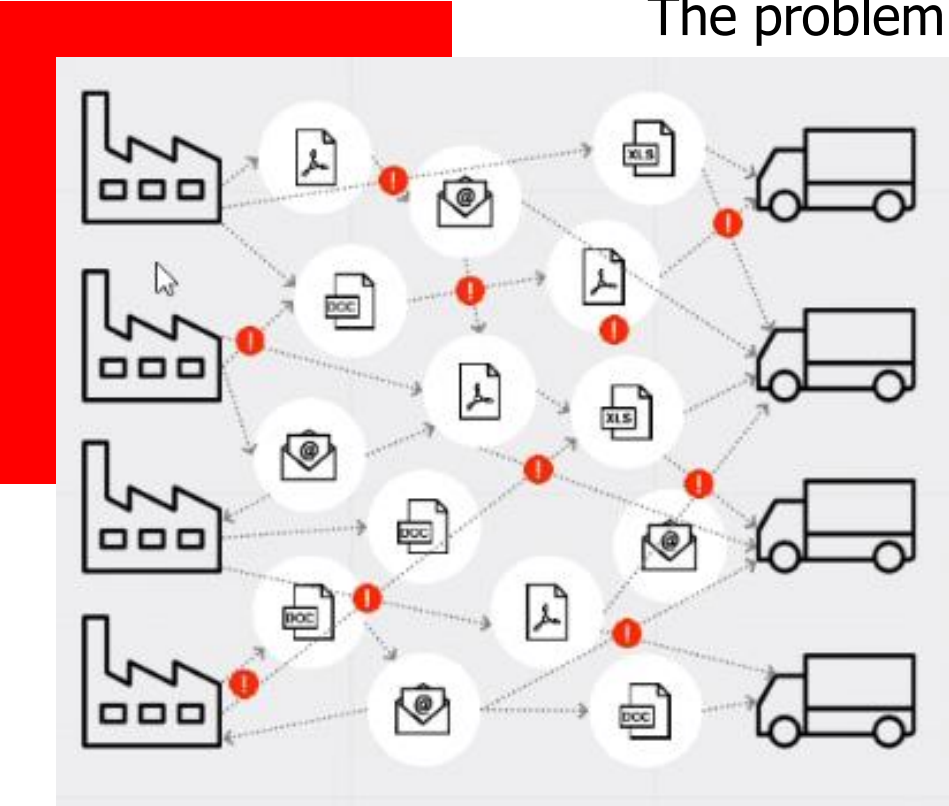
The screenshot shows a software interface for managing chemical products. At the top left, there are three hazard symbols: a skull and crossbones (toxic), a flame (flammable), and a biohazard symbol. Below these are several text boxes containing safety instructions in German and English, such as 'Keine Vorladung von toxischen, mutagenen, teratogenen, karcinogenen...' and 'No preloading of toxic, mutagenic, teratogenic, carcinogenic, reproductive...'. The main part of the interface is a table with columns for 'CAS' and 'Name'. The table lists various chemical substances like '1,3-Butanediol', '1,4-Butandiol', '1,4-Butandiol Dimethacrylat', etc. To the right of the table, there are several text fields and buttons, including 'Header Details', 'Financial Processing', 'Administration', 'Partner', 'Texts', and 'Conditions'. The interface is cluttered with multiple windows and overlapping text, illustrating a lack of standardization.



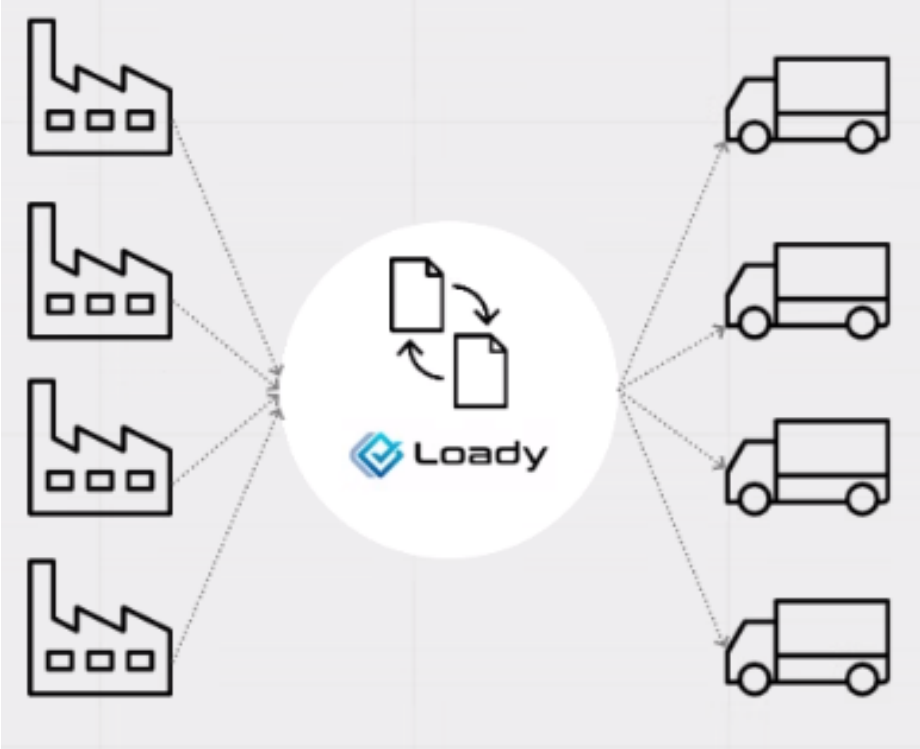
The producing companies themselves maintain the **preloading- and cleaning-related information** of their products in Loady.

Consequently, Loady offers a **single point of truth** all business and logistics partners can refer to.

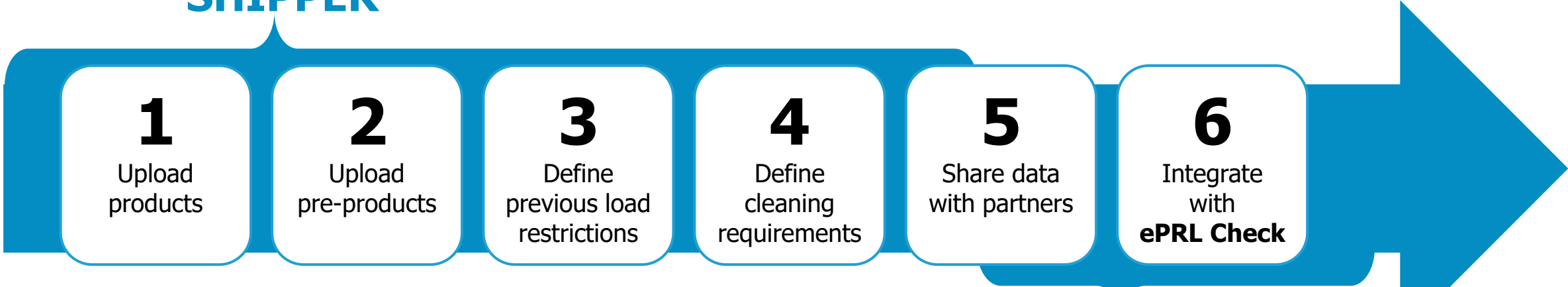
The problem



The solution

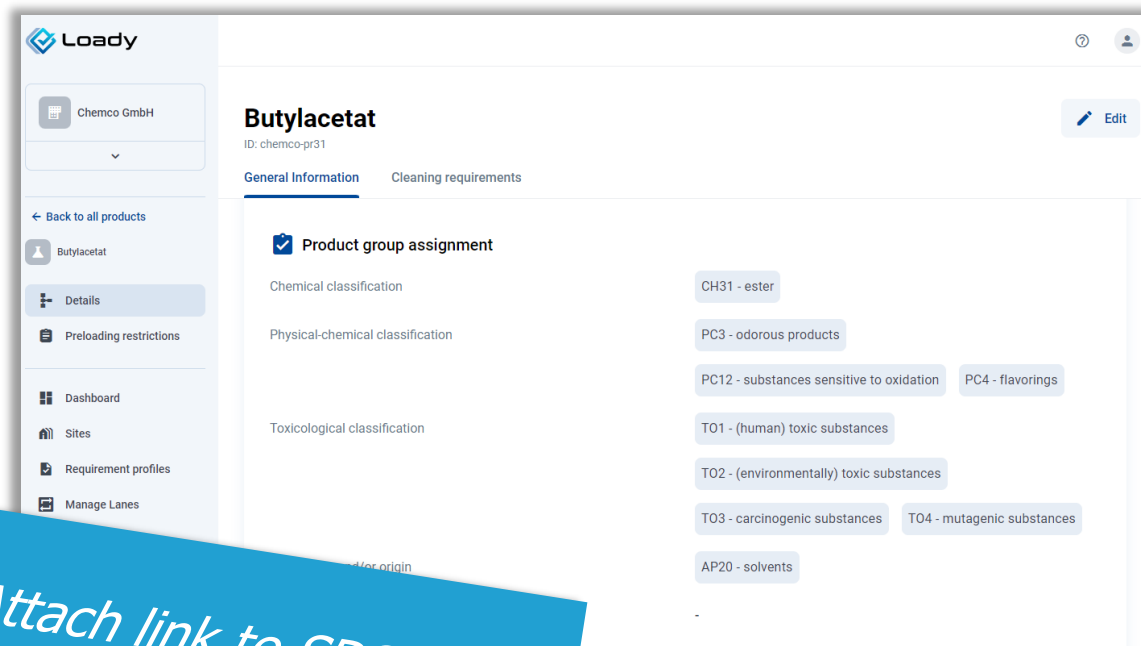


With Loady, there are few steps towards a **fully digitized** management of previous load restrictions



**CARRIER**

# 1 Upload product masterdata and assign products to **standardized product groups** based on chemical, chemical-physical, toxicological classification ....



- Helps you to understand product incompatibilities
- Provides other companies and carriers the information about possible previous loads
- Reduces complexity in management of preloading restrictions by aggregating into product groups

*Attach link to SDS here!*

# 2 Allow your products to be listed with “public” information in the Pre-Product Database of Loady for all other companies to use it as pre-products and upload your existing pre-product lists

The screenshot shows a web interface for creating preloading restrictions. On the left, there are several form fields: 'PRL Group' (dropdown), 'Pre-Product' (text input with 'Butylacetate #56089'), 'Customer' (dropdown with 'Evonik Darmstadt'), 'PRL Allowed' (radio buttons for 'Yes' and 'No'), 'Pre-Load Count' (dropdown with 'Load Count'), 'Cleaning required' (radio buttons for 'Yes' and 'No'), 'Cleaning procedures' (dropdown), and 'Required tests' (dropdown). On the right, the product details for 'Butylacetate #56089' are displayed. The 'Pre-Product basics' section includes: Chemical Name (n-butylacetat, buty acetate), Trivial Name (Essigsäure, Acetic acid), EC-Number (234-985-5), and CAS-Number (12048-50-9). The 'Product Group Assignment' section includes: Chemical classification (Acid, Solution), Physical-chemical classification (Additive, Acetic acid), Toxicological classification (Mutagen), and Application and/or origin (Surface). At the bottom right, there are 'Cancel' and 'Save' buttons.

## Loady Pre-Product Information\*

- Chemical name
- Trivial name
- EC-Number
- CAS-Number
- Product group assignment
- Safety Data Sheet(s)

\*pre-product specifications for food, feed and other bulk product groups will be available soon

# 3 Define **previous load restrictions** based on pre-product groups or individual pre-products

Product

## Butylacetat

ID: chemco-pr31

Toggle Columns

PRL Group or Pre-Product	CAS Number	Customer	PRL Allowed	Pre-Load Count	Cleaning Required	Cleaning Procedures	Required Tests	Created by	Last Updated	
Acids	5345345	Chemco GmbH	Yes	3	Yes	P30, P80	T30	Frank Wulkow	2022-05-20	...
Butylacetate	34543534543	Chemco GmbH	No	1	-	-	-	Frank Wulkow	2022-05-18	...
Propanol	13432432432	Chemco GmbH	Yes	3	No	-	-	Frank Wulkow	2022-05-12	...
Esters	45645767	Chemco GmbH	Yes	2	No	-	-	Frank Wulkow	2022-06-01	...
Teramol	534435435	Chemco GmbH	Yes	1	Yes	P20	T10, T30, T70	Frank Wulkow	2022-06-20	...
Geraniol	345435345	Chemco GmbH	Yes	2	No	-	-	Frank Wulkow	2022-05-03	...
ME-Termital	354345435	Chemco GmbH	Yes	1	Yes	F01, P60, T70	T30, T41	Frank Wulkow	2022-05-20	...

1-7 out of 100

## With Loady you will:

- Replace excel lists and free texts
- Give common structure and single point of truth to the industry and carriers
- Enable digitalization and automation of other correlated processes
- Reduce effort in data management
- Increase data accuracy and consistency along the supply chain processes



# 4 Define **product-specific, cleaning-related requirements** regarding documents, validity, equipment state, etc.

Product  
**Butylacetat**  
ID: chemco-pr31

General Information Cleaning requirements

**General Cleaning Info**

General cleaning requirement	Always clean
Cleaning frequency (If pre-product is the same as product)	-
Additional requirements regarding General Cleaning Info	-

**Cleaning Certificate**

If cleaning required, Cleaning Certificate is mandatory	Yes
Cleaning Certificate required for each compartment	Yes
Cleaning Certificate not older than	72 hours
Cleaning Certificate Validity	42 days
Additional requirements regarding cleaning certificate	-

**Pre-Product Certificate**

Pre-Product Certificate	Required
Pre-Product Certificate not older than	48 hours
Pre-Product Certificate validity	60 days
Additional requirements regarding Pre-Product Certificate	-

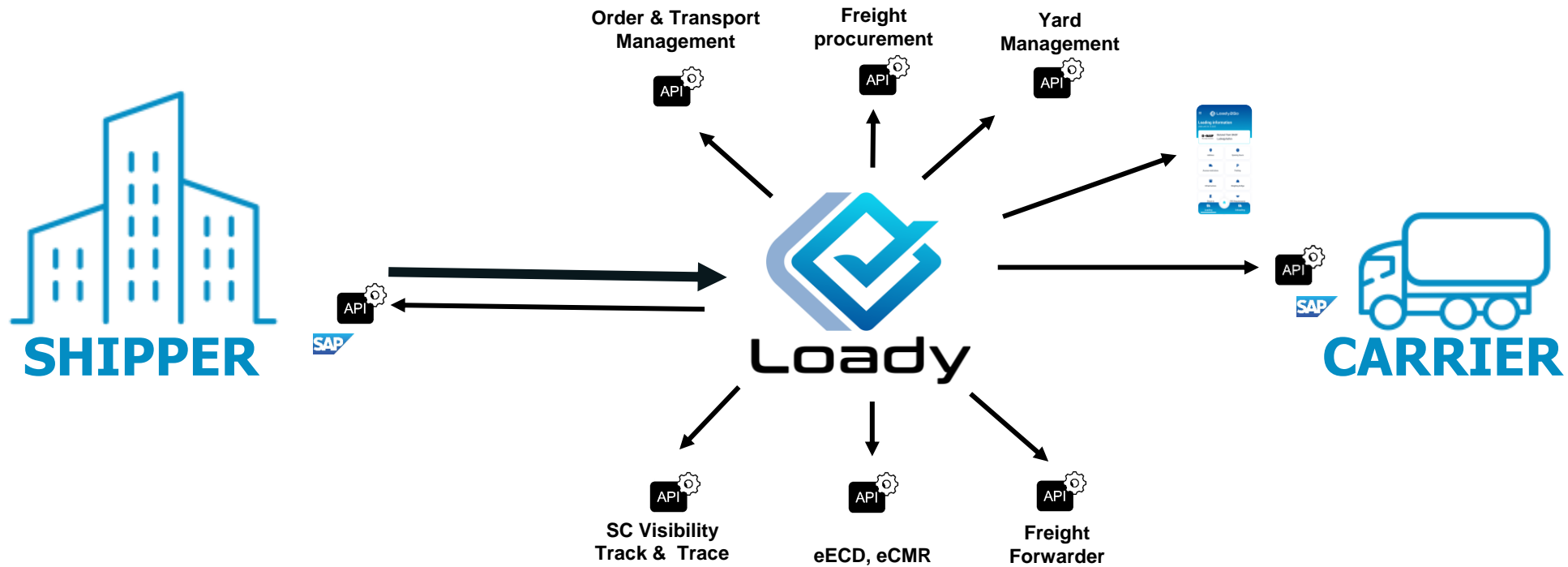
**Vacuum Test confirmation**

Vacuum test confirmation	Required
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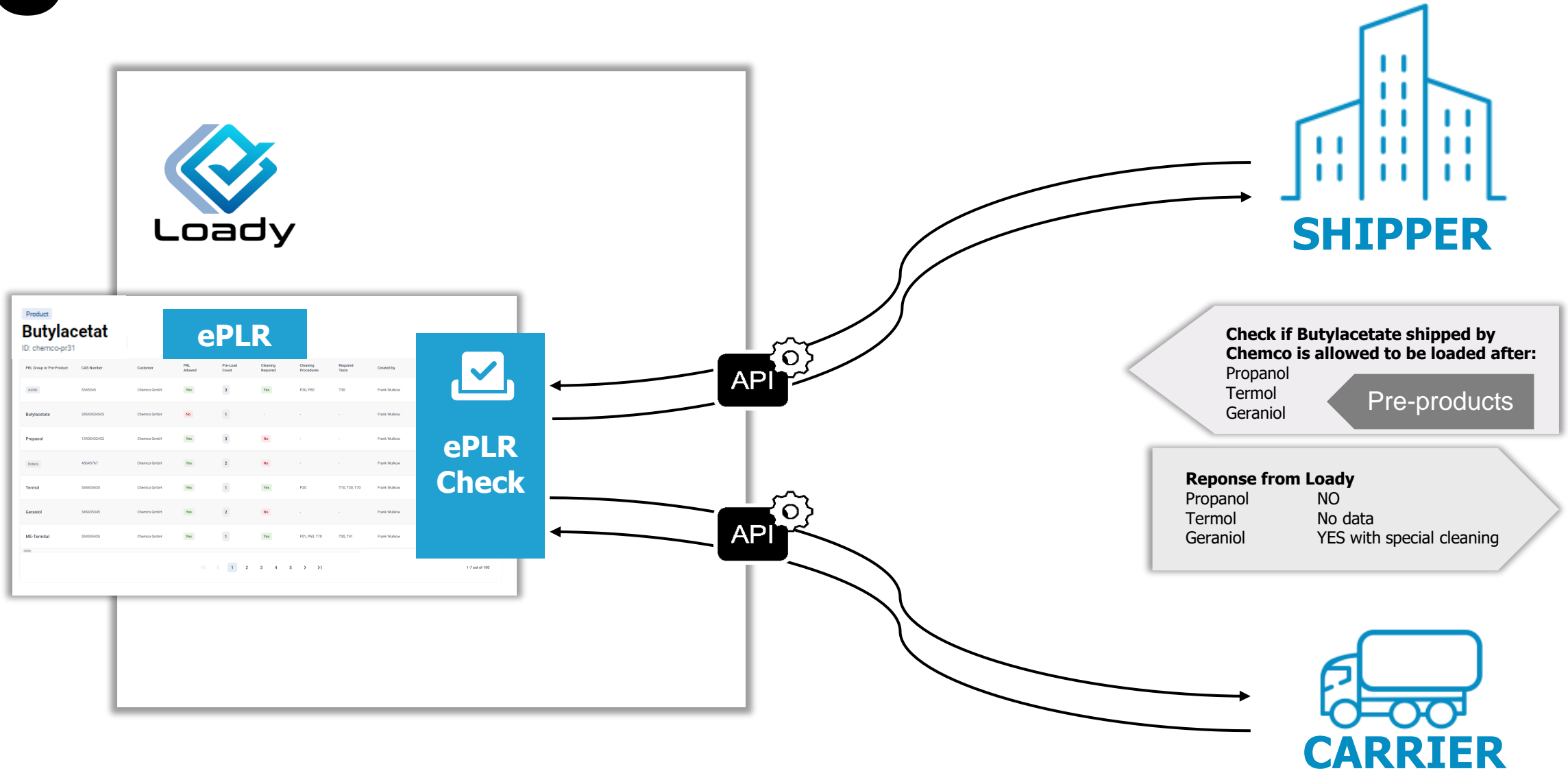
## Manage **YOUR** expectations regarding cleaning-related documents and procedures:

- Cleaning document
- Previous load certificate
- Vacuum test confirmation
- Required state of equipment
- Accepted cleaning operators
- Others

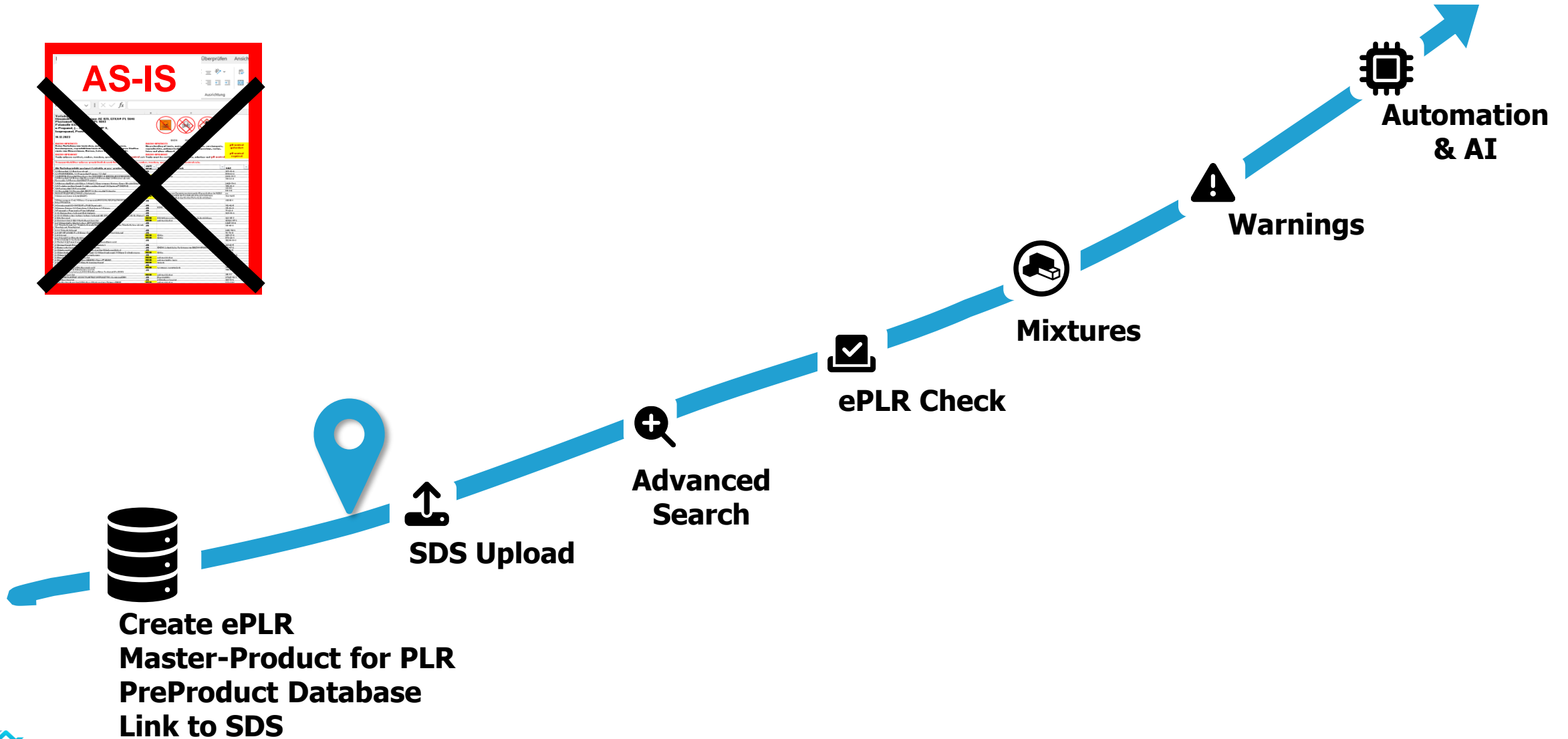
# 5 Share your pre-product restrictions as **structured data** along your operational processes with all relevant partners/systems



# 6 Integrate with Electronic Previous Load Restriction (ePLR) check



# Electronic Previous Load Restrictions **ePLR** in Loady - ROADMAP





Do you want to see how you can manage pre-load restrictions effectively? Avoid truck rejections due to missing pre-product information or cleaning documents?

**Try Loady today!**

Visit [www.loady.com](http://www.loady.com), get in touch with [info@loady.com](mailto:info@loady.com) and follow us on [LinkedIn](#).

